



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Bourdoux, et al. )  
)  
App. No. : 10/645,858 )  
)  
Filed : August 20, 2003 )  
)  
For : METHOD AND APPARATUS FOR )  
MULTI-USER MULTI-INPUT )  
MULTI-OUTPUT TRANSMISSION )  
)  
Examiner : Unassigned )  
)

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ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventor(s) to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventor(s) to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 2040 Main Street, Fourteenth Floor, Irvine, California 92614, Telephone (949) 760-0404, **Customer**

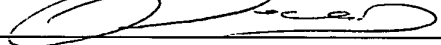
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**Filed** : August 20, 2003

**No. 20,995**, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

INTERUNIVERSITAIR  
MICROELEKTRONICA CENTRUM (IMEC)

Dated: \_\_\_\_\_

By:   
Print Name: Prof. Gilbert Declerck

Title: President

Address: Kapeldreef 75, 3001 Leuven, Belgium

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ASSIGNMENT

WHEREAS, WE (1) André Bourdoux, a Belgian, citizen, residing at Rue Hachelette 30, 4130 Esneux, Belgium and (2) Nadia Khaled, a Moroccan citizen, residing at Minderbroederstraat 21, 00.21, 3000 Leuven, Belgium hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in METHOD AND APPARATUS FOR MULTI-USER MULTI-INPUT MULTI-OUTPUT TRANSMISSION, the specification of which was filed on August 20, 2003 as Application No. 10/645,858.

AND WHEREAS, Interuniversitair Microelektronica Centrum (IMEC), with its principal place of business at Kapeldreef 75, 3001 Leuven, Belgium, (hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 9<sup>th</sup> day of July, 2004

André Bourdoux  
Signature of André Bourdoux

This 9<sup>th</sup> day of July, 2004

Nadia Khaled  
Signature of Nadia Khaled

Witnessed by:

\_\_\_\_\_  
Print Name:

**COPY  
DO NOT RECORD**